



DEPARTMENT OF THE NAVY  
THEATER NETWORK OPERATIONS & SECURITY CENTER (TNOSC)  
NAPLES, ITALY  
PSC 822 BOX 1000  
FPO AE 09621-7000



24 October 2006

From: Director, Theater Network Operations and Security Center (TNOSC),  
Naval Computer and Telecommunications Station (NCTS), Naples,  
Italy

To: ONE-NET Subscribers

Subj: USE/TOPOLOGY OF ONE-NET PRINTERS

Ref: (a) Requirements Processing Directive dated 23 Aug 2006  
(b) Naval Telecommunications Directive (NTD) DTG 051428Z AUG 05

Encl: (1) Basic Network Printing Topology  
(2) List of recommended printers

**Purpose**

To promulgate the use and the basic topology of network printers.

**Overview**

1. IAW reference (a) this document specifically addresses the use of printers on Department of the Navy networks.
2. User sends a print job to a network printer. Data goes to a print server. This is a server that holds all device drivers and is the queue for the network printers. Print servers allow certain data to travel through specific ports. Inbound data from a user's computer passes through the print server and is delivered to the appropriate printing device.
3. Bi-directional traffic (capability of operating in either of two directions which are the opposite of each other) is not possible. Data can only go in one direction. The network printing topology is shown in Enclosure (1).
4. IAW reference (b), the network architecture does not allow the use of Multi Function Devices (MFD) such as printer/fax/scanners. MFDs must be configured IAW this policy, therefore eliminating multi function capabilities. For future procurement, please see enclosure (2) for a list of recommended printers.
5. Should you have any questions or comments about this memorandum, contact the TNOSC Business Operation Office.
6. This memorandum supersedes all other previous, same subject.

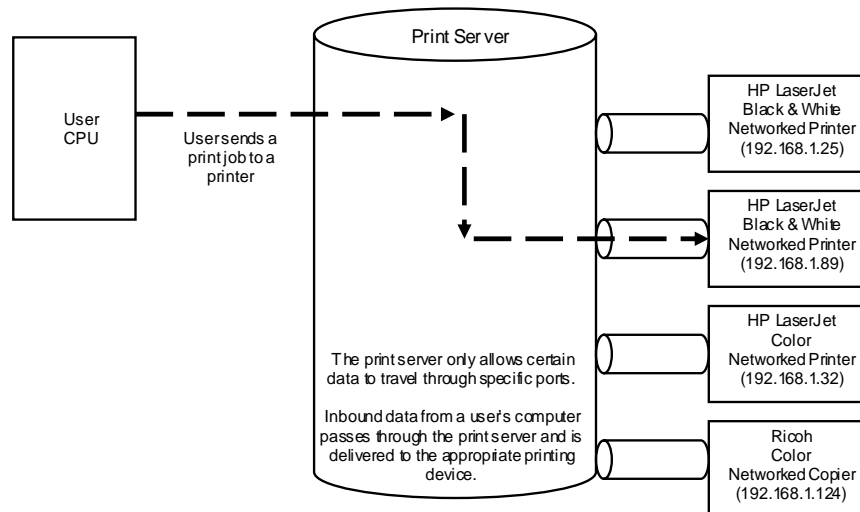
MARK F. BIBEAU  
LCDR USN



**DEPARTMENT OF THE NAVY**  
THEATER NETWORK OPERATIONS & SECURITY CENTER (TNOSC)  
NAPLES, ITALY  
PSC 822 BOX 1000  
FPO AE 09621-7000



## Basic Network Printing Topology



Bi-directional traffic (Capability of operating in either of two directions which are the opposite of each other) is not possible. Data can only go in one direction (from the user's PC through the print server to the printing device) due to port blocking via MAC management, IP management, and naming convention.



**DEPARTMENT OF THE NAVY**  
THEATER NETWORK OPERATIONS & SECURITY CENTER (TNOSC)  
NAPLES, ITALY  
PSC 822 BOX 1000  
FPO AE 09621-7000



**List of Recommended Printers**

Following is a list of recommended printers:

**Black/White**

- HP LaserJet 4250 DTN Q5403A
- HP LaserJet 4345 MFP, Only model Q3942A for all daily routine administrative and operational departments

**Color Printers**

- HP LaserJet 4650N, or 4650DTN only for all daily routine administrative and operational departments

Encl(2)